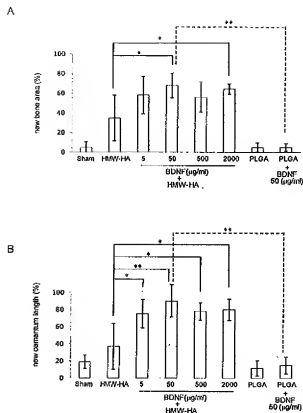


Fig.1



The graphs show the percentages of new bone area (A) and new cementum length (B) according to morphometrical analysis in experimental class III furcation defects of beagle dogs. Seven teeth from 9 dogs were used for the HMW-HA group and each BDNF/HMA-HA complex group. Three teeth from 9 dogs were used for the sham operation. Five teeth from 9 dogs were used for the PLGA group and the BDNF (50 $\mu\text{g}/\text{ml}$)/PLGA group. Three sections per tooth were examined for morphometrical analysis. The results of the HMW-HA group and the BDNF/HMW-HA groups are expressed as the mean \pm S.D. of twenty-one sections for each group. The result of the sham operation group is expressed as the mean \pm S.D. of nine sections. The results of the PLGA group and the BDNF (50 $\mu\text{g}/\text{ml}$)/PLGA group are expressed as the mean \pm S.D. of fifteen sections for each group. Differs significantly (* $P < 0.05$; ** $P < 0.01$) from the control.